

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2019 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0012

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0012

Waterway			Bank	Unit Miles
Unit No. 01 Colusa Drain			Left	11.06
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/8/2019 - 4/8/2019			
DWR Inspector	Zach Jojola			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0012_01_s_2013_12				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0012_01_s_2013_13				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0012_01_s_2013_14				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2016.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	0.24	Rating **	M	Issue No.	40
LM End	0.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.035889 °	39.035889 °
				-121.996882 °	-121.996882 °
DWR ID	17145				
Comment Code					
Inspector Comment					
FS_ID:51778 DS_ID:17145 EP_NO: 9381 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/2/2017 Abandoned- needs to be done so properly. Only the LS standpipe was found. (DWR Sutter Yard-AFreitag)10/17/2016 Abandoned (DWR Sutter Yard-AFreitag)5/31/2016 Abandoned- only the LS concrete standpipe was found.5/4/2015 Abandoned crossing.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Need to verify proper abandonment of pipe. FIELD_STRUCT_DESC: *ABANDONED* 14-inch steel irrigation pipe through the levee, 3 feet below the crown. Open on the waterside (WS) end. 3-foot by 6-foot concrete well on the WS berm. Siphon breaker in 24-inch riser located on the landside (LS) shoulder. 36-inch concrete standpipe on the LS toe. The only item identified is the 36-inch standpipe on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 9381, 1974 - F. L. Tribble). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 0.22, Drawing No. 50-4-3081)]. FS Date: 5/2/2017 1:37:36 PM					

Photo 1 of 1 : UCIP_SP_2019_51778_68970.jpg



36-inch concrete riser on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	0.49	Rating **	M	Issue No.	41	
LM End	0.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.039413 °	39.039413 °	
				-121.997766 °	-121.997766 °	
DWR ID	17146					
Comment Code						
Inspector Comment						
FS_ID:51779 DS_ID:17146 EP_NO: 9382 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 WS is in good condition. LS inlet is more than 50% full of sediment. Pipe needs to be cleaned internally. (DWR Sutter Yard- AFreitag)10/17/2016 MInor sediment blocking the WS flap gate from opening. LS inlet still mostly full of sediment.(DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent WS flap gate is closed for flood season. Need to coordinate with owner to remove sediment blocking WS flap gate. (DWR UCIP - omagana)5/31/2016 WS flap gate is blocked from opening by sediment. LS inlet is over 50% full of sediment. (DWR Sutter Yard - afreitag)5/4/2015 WS flap gate is blocked by sediment and unable to open. LS inlet is about 50% plugged with soil. Needs to be cleaned. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Sediment against flapgate has been cleared and it can now function properly. (DWR Sutter Yard - afreitag)7/16/2013 Sediment is built up against WS flapgate preventing it from opening. (DWR Sutter Yard - afreitag)10/11/2012 Pipe is partially filled with soil. (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9385, 1974 - Jackson S. King). [Additional Reference(s): DWR Levee Log references ABO 9382, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 0.49, Drawing No. 50-4-3081)]. FS Date: 5/2/2017 1:38:42 PM						

Photo 1 of 3 : UCIP_SP_2019_51779_68973.jpg



Intake at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	0.49	Rating **	M	Issue No.	41 (cont)	
LM End	0.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.039413 °	39.039413 °	
				-121.997766 °	-121.997766 °	
DWR ID	17146					
Comment Code						
Inspector Comment						
FS_ID:51779 DS_ID:17146 EP_NO: 9382 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 WS is in good condition. LS inlet is more than 50% full of sediment. Pipe needs to be cleaned internally. (DWR Sutter Yard- AFreitag)10/17/2016 MInor sediment blocking the WS flap gate from opening. LS inlet still mostly full of sediment.(DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent WS flap gate is closed for flood season. Need to coordinate with owner to remove sediment blocking WS flap gate. (DWR UCIP - omagana)5/31/2016 WS flap gate is blocked from opening by sediment. LS inlet is over 50% full of sediment. (DWR Sutter Yard - afreitag)5/4/2015 WS flap gate is blocked by sediment and unable to open. LS inlet is about 50% plugged with soil. Needs to be cleaned. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Sediment against flapgate has been cleared and it can now function properly. (DWR Sutter Yard - afreitag)7/16/2013 Sediment is built up against WS flapgate preventing it from opening. (DWR Sutter Yard - afreitag)10/11/2012 Pipe is partially filled with soil. (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9385, 1974 - Jackson S. King). [Additional Reference(s): DWR Levee Log references ABO 9382, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 0.49, Drawing No. 50-4-3081)]. FS Date: 5/2/2017 1:38:42 PM						

Photo 2 of 3 : UCIP_SP_2019_51779_68972.jpg



Outlet at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	0.49	Rating **	M	Issue No.	41 (cont)	
LM End	0.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.039413 °	39.039413 °	
				-121.997766 °	-121.997766 °	
DWR ID	17146					
Comment Code						
Inspector Comment						
FS_ID:51779 DS_ID:17146 EP_NO: 9382 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 WS is in good condition. LS inlet is more than 50% full of sediment. Pipe needs to be cleaned internally. (DWR Sutter Yard- AFreitag)10/17/2016 MInor sediment blocking the WS flap gate from opening. LS inlet still mostly full of sediment.(DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent WS flap gate is closed for flood season. Need to coordinate with owner to remove sediment blocking WS flap gate. (DWR UCIP - omagana)5/31/2016 WS flap gate is blocked from opening by sediment. LS inlet is over 50% full of sediment. (DWR Sutter Yard - afreitag)5/4/2015 WS flap gate is blocked by sediment and unable to open. LS inlet is about 50% plugged with soil. Needs to be cleaned. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Sediment against flapgate has been cleared and it can now function properly. (DWR Sutter Yard - afreitag)7/16/2013 Sediment is built up against WS flapgate preventing it from opening. (DWR Sutter Yard - afreitag)10/11/2012 Pipe is partially filled with soil. (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9385, 1974 - Jackson S. King). [Additional Reference(s): DWR Levee Log references ABO 9382, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 0.49, Drawing No. 50-4-3081)]. FS Date: 5/2/2017 1:38:42 PM						

Photo 3 of 3 : UCIP_SP_2019_51779_68971.jpg



Inlet and concrete headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	1.38	Rating **	A/W	Issue No.	42 (cont)
LM End	1.38	Issue Type +	Ma	Location *	

A photograph showing a body of water, likely a pond or lake, with a gravelly foreground and a sandy bank. The bank is covered with some dry, yellowish grass and a small, dark green shrub. In the background, there is a dense line of trees and foliage. The water is calm and reflects the sky.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	1.38	Rating **	A/W	Issue No.	42 (cont)
LM End	1.38	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.051280 °	39.051280 °
				-122.002981 °	-122.002981 °
DWR ID	17147				
Comment Code					
Inspector Comment					
FS_ID:51780 DS_ID:17147 EP_NO: 9382 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. This is a gravity for the LS.(DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Crossing is in good condition. No issues.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe [HLM 1.40] authorized under Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Olen C. Bober). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 1.4)]. FS Date: 5/2/2017 1:40:20 PM					

Photo 3 of 3 : UCIP_SP_2019_51780_68975.jpg



Concrete U shaped headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	1.51	Rating **	M	Issue No.	43	
LM End	1.51	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.053074 °	39.053074 °	
				-122.003157 °	-122.003157 °	
DWR ID	17148					
Comment Code						
Inspector Comment						
FS_ID:51781 DS_ID:17148 EP_NO: 9382 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 WS is being overgrown with vegetation. The rest of the crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)10/17/2016 Vegetation is overgrowing the WS head wall near the pump. The rest of the crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Crossing appears in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 3 feet below the crown. Pump, butterfly valve, and concrete headwall at the edge of the bank. Bank cobble revetted 10 feet on both the waterside (WS) and the landside (LS) of installation. 18-inch polyvinyl chloride (PVC) standpipe on the LS berm. Siphon breaker in 18-inch concrete riser on the LS shoulder. Service pole at the edge of the bank. (24-inch [HLM 1.53] authorized under Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Olen C. Bober) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 1.53)]. FS Date: 5/2/2017 1:47:19 PM						

LM Start	1.51	Rating **	M	Issue No.	43 (cont)
LM End	1.51	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_51781_68981.jpg



Pump, pole, and meter on WS toe.

Photo 2 of 3 : UCIP_SP_2019_51781_68980.jpg



Concrete and PVC risers on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	1.51	Rating **	M	Issue No.	43 (cont)	
LM End	1.51	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.053074 °		39.053074 °
				-122.003157 °		-122.003157 °
DWR ID	17148					
Comment Code						
Inspector Comment						
FS_ID:51781 DS_ID:17148 EP_NO: 9382 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 WS is being overgrown with vegetation. The rest of the crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)10/17/2016 Vegetation is overgrowing the WS head wall near the pump. The rest of the crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Crossing appears in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 3 feet below the crown. Pump, butterfly valve, and concrete headwall at the edge of the bank. Bank cobble revetted 10 feet on both the waterside (WS) and the landside (LS) of installation. 18-inch polyvinyl chloride (PVC) standpipe on the LS berm. Siphon breaker in 18-inch concrete riser on the LS shoulder. Service pole at the edge of the bank. (24-inch [HLM 1.53] authorized under Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Olen C. Bober) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 1.53)]. FS Date: 5/2/2017 1:47:19 PM						

Photo 3 of 3 : UCIP_SP_2019_51781_68979.jpg



Pump and concrete headwall at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	1.69	Rating **	M	Issue No.	44
LM End	1.69	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.055711 °	39.055711 °	
			-122.003252 °	-122.003252 °	
DWR ID	17149				

Comment Code

Inspector Comment

FS_ID:51782
DS_ID:17149
EP_NO: 9382
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/2/2017 WS flapgate buried by sediment. Needs to be dug out. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. This is a gravity drain for the LS. (DWR Sutter Yard- AFreitag)5/31/2016 LS inlets was partially plugged. WS flapgate was clear of sediment and abale to operate properly.5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is plugged by silt and wood chippings. Needs to be cleaned.6/17/2014 Flap gate was cleaned out and is fully closed. LS inlet still partially full of soil.12/16/2013 Same as last inspection. WS flapgate still needs to be cleaned out and shut.7/16/2013 Same as last inspection. Make sure flapgate is closed before highwater season.10/11/2012 Inlet on LS filled partially with soil. Outlet blocked with soil and the flap gate wont close.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe [HLM 1.72] authorized under Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Olen C. Bober). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 1.72)].
FS Date: 5/2/2017 1:50:52 PM

LM Start	1.69	Rating **	M	Issue No.	44 (cont)
LM End	1.69	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_51782_68984.jpg



Outlet on WS toe.

Photo 2 of 3 : UCIP_SP_2019_51782_68983.jpg



Inlet on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	1.69	Rating **	M	Issue No.	44 (cont)	
LM End	1.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.055711 °		39.055711 °
				-122.003252 °		-122.003252 °
DWR ID	17149					
Comment Code						
Inspector Comment						
FS_ID:51782 DS_ID:17149 EP_NO: 9382 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 WS flapgate buried by sediment. Needs to be dug out. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. This is a gravity drain for the LS. (DWR Sutter Yard- AFreitag)5/31/2016 LS inlets was partially plugged. WS flapgate was clear of sediment and abale to operate properly.5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is plugged by silt and wood chippings. Needs to be cleaned.6/17/2014 Flap gate was cleaned out and is fully closed. LS inlet still partially full of soil.12/16/2013 Same as last inspection. WS flapgate still needs to be cleaned out and shut.7/16/2013 Same as last inspection. Make sure flapgate is closed before highwater season.10/11/2012 Inlet on LS filled partially with soil. Outlet blocked with soil and the flap gate wont close. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe [HLM 1.72] authorized under Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Olen C. Bober). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 1.72)]. FS Date: 5/2/2017 1:50:52 PM						

Photo 3 of 3 : UCIP_SP_2019_51782_68982.jpg



Concrete U shaped headwall at LS inlet.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	1.77	Rating **	A/W	Issue No.	45
LM End	1.77	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.056847 °	39.056847 °	
			-122.003288 °	-122.003288 °	
DWR ID	17150				

Comment Code

Inspector Comment

FS_ID:51785
DS_ID:17150
EP_NO: 9387
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition. Attached photo showing location of LS inlet.5/4/2015 WS flapgate mostly underwater but could tell it was blocked open by something. LS inlet is located about 1/4 mile north along the side of the roadway.6/17/2014 Same as last inspection.12/16/2013 Pipe was flowing water and flap gate was being pushed open. Cannot verify if it will close all the way.7/16/2013 Same as last inspection. Was told inlet is about 1/4 mile down road way next to house. Will try to get coordinates for inlet.10/11/2012 No inlet could be located on LS. Flap gate partially blocked and will not close completely.
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate in 60-inch riser on the waterside (WS) slope. Flap gate and concrete headwall on the WS. (48-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9387, 1974 - Lauretta S. Christenson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 1.8)].
FS Date: 5/2/2017 1:56:07 PM

LM Start	1.77	Rating **	A/W	Issue No.	45 (cont)
LM End	1.77	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_51785_68991.jpg



60-inch standpipe with slide gate on WS slope with outlet in background.

Photo 2 of 3 : UCIP_SP_2019_51785_68990.jpg



Flap gate and concrete headwall at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	1.77	Rating **	A/W	Issue No.	45 (cont)	
LM End	1.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.056847 °	39.056847 °	
				-122.003288 °	-122.003288 °	
DWR ID	17150					
Comment Code						
Inspector Comment						
FS_ID:51785 DS_ID:17150 EP_NO: 9387 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition. Attached photo showing location of LS inlet.5/4/2015 WS flapgate mostly underwater but could tell it was blocked open by something. LS inlet is located about 1/4 mile north along the side of the roadway.6/17/2014 Same as last inspection.12/16/2013 Pipe was flowing water and flap gate was being pushed open. Cannot verify if it will close all the way.7/16/2013 Same as last inspection. Was told inlet is about 1/4 mile down road way next to house. Will try to get coordinates for inlet.10/11/2012 No inlet could be located on LS. Flap gate partially blocked and will not close completely. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate in 60-inch riser on the waterside (WS) slope. Flap gate and concrete headwall on the WS. (48-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9387, 1974 - Lauretta S. Christenson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 1.8)]. FS Date: 5/2/2017 1:56:07 PM						

Photo 3 of 3 : UCIP_SP_2019_51785_75168.jpg



Arrow showing location of LS inlet

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	1.98	Rating **	M	Issue No.	46
LM End	1.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.059773 °	39.059773 °
				-122.004391 °	-122.004391 °
DWR ID	17151				

Comment Code

Inspector Comment

FS_ID:51786
DS_ID:17151
EP_NO: 9391
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/2/2017 Both ends of pipe buried. (DWR Sutter Yard- AFreitag)10/17/2016 Appears abandoned. Both pipe ends are completely buried. (DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent both pipe ends are buried. Having both ends buried prevents water from flowing from WS to LS during flood season. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)5/31/2016 Both pipe ends are buried. Pipe is non-operational. (DWR Sutter Yard - afreitag)5/4/2015 LS and WS ends are blocked with soil. Pipe is inoperable as it is. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 LS inlet is completely filled with soil. Needs to be cleaned out. (DWR Sutter Yard - afreitag)10/11/2012 Inlet is partially filled with soil. (DWR Sutter Yard - wwylie)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9391, 1974 - Department of Water Resources, Northern District). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 2.02)].
FS Date: 5/2/2017 2:01:25 PM

Photo 1 of 3 : UCIP_SP_2019_51786_68994.jpg



WS view of outlet.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	1.98	Rating **	M	Issue No.	46 (cont)	
LM End	1.98	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.059773 °	39.059773 °	
				-122.004391 °	-122.004391 °	
DWR ID	17151					
Comment Code						
Inspector Comment						
FS_ID:51786 DS_ID:17151 EP_NO: 9391 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Both ends of pipe buried. (DWR Sutter Yard- AFreitag)10/17/2016 Appears abandoned. Both pipe ends are completely buried. (DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent both pipe ends are buried. Having both ends buried prevents water from flowing from WS to LS during flood season. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)5/31/2016 Both pipe ends are buried. Pipe is non-operational. (DWR Sutter Yard - afreitag)5/4/2015 LS and WS ends are blocked with soil. Pipe is inoperable as it is. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 LS inlet is completely filled with soil. Needs to be cleaned out. (DWR Sutter Yard - afreitag)10/11/2012 Inlet is partially filled with soil. (DWR Sutter Yard - wwyliie) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9391, 1974 - Department of Water Resources, Northern District). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 2.02)]. FS Date: 5/2/2017 2:01:25 PM						

Photo 2 of 3 : UCIP_SP_2019_51786_68993.jpg



LS view of inlet.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Maintenance Area 0012

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	2.58	Rating **	U	Issue No.	34
LM End	3.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.067342 °	39.072267 °
				-122.009530 °	-122.014443 °
DWR ID	DWR_MA0012_01_f _ 2016_34				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2019_MA0012_299_34_20190304_00003.jpg



View of a ditch along the landside toe.

LM Start	3.01	Rating **	U	Issue No.	1
LM End	3.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.072267 °	39.081684 °
				-122.014453 °	-122.016243 °
DWR ID	DWR_MA0012_01_s_2019_1				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2019_MA0012_299_1_20190304_00001.jpg



View of a ditch along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	3.15	Rating **	A/W	Issue No.	47 (cont)
LM End	3.15	Issue Type +	Ma	Location *	

A photograph of a dry, open landscape. The foreground is a light-colored, sandy or gravelly surface. In the middle ground, there is a dense patch of tall, dry grasses and some green shrubs. The background shows a flat expanse of land with more vegetation and a clear sky.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	3.15	Rating **	A/W	Issue No.	47 (cont)	
LM End	3.15	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.074151 °		39.074151 °
				-122.014960 °		-122.014960 °
DWR ID	17153					
Comment Code						
Inspector Comment						
FS_ID:51788 DS_ID:17153 EP_NO: 9384 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Crossing appears in good condition. No noticeable issues.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 16 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe [HLM 3.22] authorized under Automatic Board Order (ABO) issued as Permit No. 9384, 1974 - William D. Struckmeyer) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 3.22)]. FS Date: 5/2/2017 2:04:40 PM						

Photo 3 of 3 : UCIP_SP_2019_51788_69000.jpg



Concrete headwall and flap gate at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	3.69	Rating **	M	Issue No.	48
LM End	3.69	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.081949 °	39.081949 °	
			-122.016179 °	-122.016179 °	
DWR ID	17154				

Comment Code

Inspector Comment

FS_ID:53011
DS_ID:17154
EP_NO: 9388
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/5/2018 Fall hazard: missing cover on CMP riser. Closure devices are present on both ends of crossing and seem to be in operable condition. Downgraded to non-urgent. Recommend owner add cover to CMP riser. (O.Yakimov - DWR)5/2/2017 WS slidegate stem is still bent, wheel to operate gate is missing. Needs a cover made for the standpipe to prevent falls. (DWR Sutter Yard- AFreitag)10/17/2016 Slide gate stem is still and the gate appears to be inoperable. (DWR Sutter Yard- AFreitag)5/31/2016 Slide gate stem is still bent. WS flap gate is chained open. (DWR Sutter Yard - afreitag)5/4/2015 Slide gate stem is still bent. Gate looks to be unable to close all the way. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Slide gate stem is still bent. WS flapgate was closed. (DWR Sutter Yard - afreitag)7/16/2013 Water flowing through pipe so screw gate definitely not closed. Was told NOV's have been sent for owner to replace stem. Flap gate gets closed for flood season. (DWR Sutter Yard - afreitag)10/11/2012 Slide gate inoperable, but appears to be in closed position. Flap gate held in open position. Good candidate for video inspection when, if ever, dry. (DWR UCIP - wwylie)
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 28 feet below the crown. Slide gate in a 66-inch riser on the waterside (WS) slope. Concrete headwall on the WS. Grouted cobble spillway from drainage ditch to large canal on the landside (LS). (48-inch pipe [HLM 3.78] authorized under Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Pauline A. Wallace).
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 3.78)].
FS Date: 10/5/2018 2:47:50 PM

Photo 1 of 3 : UCIP_SP_2019_53011_78198.jpg



View of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	3.69	Rating **	M	Issue No.	48 (cont)
LM End	3.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.081949 °	39.081949 °
				-122.016179 °	-122.016179 °
DWR ID	17154				

Comment Code

Inspector Comment

FS_ID:53011
DS_ID:17154
EP_NO: 9388
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/5/2018 Fall hazard: missing cover on CMP riser. Closure devices are present on both ends of crossing and seem to be in operable condition. Downgraded to non-urgent. Recommend owner add cover to CMP riser. (O.Yakimov - DWR)5/2/2017 WS slidegate stem is still bent, wheel to operate gate is missing. Needs a cover made for the standpipe to prevent falls. (DWR Sutter Yard- AFreitag)10/17/2016 Slide gate stem is still and and the gate appears to be inoperable. (DWR Sutter Yard- AFreitag)5/31/2016 Slide gate stem is still bent. WS flap gate is chained open. (DWR Sutter Yard - afreitag)5/4/2015 Slide gate stem is still bent. Gate looks to be unable to close all the way. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Slide gate stem is still bent. WS flapgate was closed. (DWR Sutter Yard - afreitag)7/16/2013 Water flowing through pipe so screw gate definately not closed. Was told NOV's have been sent for owner to replace stem. Flap gate gets closed for flood season. (DWR Sutter Yard - afreitag)10/11/2012 Slide gate inoperable, but appears to be in closed position. Flap gate held in open position. Good candidate for video inspection when, if ever, dry. (DWR UCIP - wwylie)
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 28 feet below the crown. Slide gate in a 66-inch riser on the waterside (WS) slope. Concrete headwall on the WS. Grouted cobble spillway from drainage ditch to large canal on the landside (LS). (48-inch pipe [HLM 3.78] authorized under Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Pauline A. Wallace).
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 3.78)].
FS Date: 10/5/2018 2:47:50 PM

Photo 2 of 3 : UCIP_SP_2019_53011_69005.jpg



Slide gate in corrugated metal riser on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	3.69	Rating **	M	Issue No.	48 (cont)
LM End	3.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.081949 °	39.081949 °
				-122.016179 °	-122.016179 °
DWR ID	17154				

Comment Code

Inspector Comment

FS_ID:53011
DS_ID:17154
EP_NO: 9388
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/5/2018 Fall hazard: missing cover on CMP riser. Closure devices are present on both ends of crossing and seem to be in operable condition. Downgraded to non-urgent. Recommend owner add cover to CMP riser. (O.Yakimov - DWR)5/2/2017 WS slidegate stem is still bent, wheel to operate gate is missing. Needs a cover made for the standpipe to prevent falls. (DWR Sutter Yard- AFreitag)10/17/2016 Slide gate stem is still and and the gate appears to be inoperable. (DWR Sutter Yard- AFreitag)5/31/2016 Slide gate stem is still bent. WS flap gate is chained open. (DWR Sutter Yard - afreitag)5/4/2015 Slide gate stem is still bent. Gate looks to be unable to close all the way. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Slide gate stem is still bent. WS flapgate was closed. (DWR Sutter Yard - afreitag)7/16/2013 Water flowing through pipe so screw gate definately not closed. Was told NOV's have been sent for owner to replace stem. Flap gate gets closed for flood season. (DWR Sutter Yard - afreitag)10/11/2012 Slide gate inoperable, but appears to be in closed position. Flap gate held in open position. Good candidate for video inspection when, if ever, dry. (DWR UCIP - wwylie)
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 28 feet below the crown. Slide gate in a 66-inch riser on the waterside (WS) slope. Concrete headwall on the WS. Grouted cobble spillway from drainage ditch to large canal on the landside (LS). (48-inch pipe [HLM 3.78] authorized under Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Pauline A. Wallace).
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 3.78)].
FS Date: 10/5/2018 2:47:50 PM

Photo 3 of 3 : UCIP_SP_2019_53011_78205.jpg



Headwall with slide gate at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	4.15	Rating **	A/W	Issue No.	49	
LM End	4.15	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.088561 °	39.088561 °	
				-122.015179 °	-122.015179 °	
DWR ID	17168					
Comment Code						
Inspector Comment						
FS_ID:51791 DS_ID:17168 EP_NO: 9388 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 27.5 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway located on the waterside (WS). Concrete headwall located on the landside (LS). (24-inch pipe [HLM 4.25] authorized under Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Pauline A. Wallace). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 4.25)]. FS Date: 5/2/2017 2:08:40 PM						

LM Start	4.15	Rating **	A/W	Issue No.	49 (cont)
LM End	4.15	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_51791_69014.jpg



Outlet at WS toe.

Photo 2 of 3 : UCIP_SP_2019_51791_69013.jpg



Concrete U shaped headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	4.15	Rating **	A/W	Issue No.	49 (cont)	
LM End	4.15	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.088561 °	39.088561 °	
				-122.015179 °	-122.015179 °	
DWR ID	17168					
Comment Code						
Inspector Comment						
FS_ID:51791 DS_ID:17168 EP_NO: 9388 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 27.5 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway located on the waterside (WS). Concrete headwall located on the landside (LS). (24-inch pipe [HLM 4.25] authorized under Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Pauline A. Wallace). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 4.25)]. FS Date: 5/2/2017 2:08:40 PM						

Photo 3 of 3 : UCIP_SP_2019_51791_69012.jpg



Concrete U shaped headwall and flap gate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	4.22	Rating **	A/W	Issue No.	50 (cont)
LM End	4.22	Issue Type +	Ma	Location *	

Pump on Concrete riser at LS toe.

Pipe through levee at LS slope.

Page 25 of 56

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	4.22	Rating **	A/W	Issue No.	50 (cont)	
LM End	4.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.089551 °	39.089551 °	
				-122.015241 °	-122.015241 °	
DWR ID	17156					
Comment Code						
Inspector Comment						
FS_ID:51792 DS_ID:17156 EP_NO: 9388 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pump on a 60-inch concrete standpipe at the landside (LS) toe. (24-inch pipe [HLM 4.32] authorized under Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Pauline A. Wallace). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 4.32)]. FS Date: 5/2/2017 2:20:21 PM						

Photo 3 of 3 : UCIP_SP_2019_51792_69015.jpg



36-inch CMP riser with Slide gate on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	4.23	Rating **	M	Issue No.	51
LM End	4.23	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.089666 °	39.089666 °	
			-122.015248 °	-122.015248 °	
DWR ID	20717				

Comment Code

Inspector Comment

FS_ID:51794
DS_ID:20717
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection. Pump reinstalled on pier.12/16/2013 Pump has been removed for winter.7/16/2013 Same as last inspection.10/11/2012 No permit identified for this crossing.
FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe though the levee, 4.5 feet below the crown. Pump in pump house located on the waterside (WS) bank. Siphon breaker valve installed on the landside (LS) shoulder. No permit has been identified since crossing was field discovered in 2012.
FS Date: 5/2/2017 2:29:42 PM

LM Start	4.23	Rating **	M	Issue No.	51 (cont)
LM End	4.23	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_51794_69023.jpg



Possible siphon breaker for pipe on LS shoulder.

Photo 2 of 3 : UCIP_SP_2019_51794_69022.jpg



Pumping plant on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	4.23	Rating **	M	Issue No.	51 (cont)	
LM End	4.23	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.089666 °	39.089666 °	
				-122.015248 °	-122.015248 °	
DWR ID	20717					
Comment Code						
Inspector Comment						
FS_ID:51794 DS_ID:20717 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection. Pump reinstalled on pier.12/16/2013 Pump has been removed for winter.7/16/2013 Same as last inspection.10/11/2012 No permit identified for this crossing. FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe though the levee, 4.5 feet below the crown. Pump in pump house located on the waterside (WS) bank. Siphon breaker valve installed on the landside (LS) shoulder. No permit has been identified since crossing was field discovered in 2012. FS Date: 5/2/2017 2:29:42 PM						

Photo 3 of 3 : UCIP_SP_2019_51794_69021.jpg



Pipe on seft side of photo.

LM Start	4.72	Rating **	M	Issue No.	4
LM End	4.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.096839 °	39.097455 °
				-122.015568 °	-122.015581 °
DWR ID	DWR_MA0012_01_s_2012_4				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2019_MA0012_299_4_20190304_00002.jpg



View of a ditch along the landside toe.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	4.76	Rating **	A/W	Issue No.	52
LM End	4.76	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.097378 °	39.097378 °	
			-122.015560 °	-122.015560 °	
DWR ID	17158				

Comment Code

Inspector Comment

FS_ID:51795
DS_ID:17158
EP_NO: 9390
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 5/2/2017 Crossing appears to be in good condition. There is minor sediment build up in front of the WS flap gate/ (DWR Sutter Yard- A Freitag) 10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/31/2016 Crossing appears to be in good condition. 5/4/2015 Crossing appears to be in good condition. No noticeable issues to report. 6/17/2014 Same as last inspection. 12/16/2013 Same as last inspection. 7/16/2013 New flapgate installed on WS pipe end. 10/11/2012 Flap gate broken on WS, Pipe shows significant rust at outlet. This is a good candidate for video inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe though the levee, 20 feet below the crown. Pump on metal pier in landside (LS) channel. 40-inch steel standpipe at the LS toe. Flap gate and concrete headwall on the waterside (WS). Concrete headwall on the LS. (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 4.87)].
FS Date: 5/2/2017 2:30:31 PM

LM Start	4.76	Rating **	A/W	Issue No.	52 (cont)
LM End	4.76	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_51795_69026.jpg



Outlet channel on WS toe.

Photo 2 of 3 : UCIP_SP_2019_51795_69025.jpg



Pump, walkway, and standpipe on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	4.76	Rating **	A/W	Issue No.	52 (cont)	
LM End	4.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.097378 °	39.097378 °	
				-122.015560 °	-122.015560 °	
DWR ID	17158					
Comment Code						
Inspector Comment						
FS_ID:51795 DS_ID:17158 EP_NO: 9390 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. There is minor sediment build up in front of the WS flap gate/ (DWR Sutter Yard- A Freitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 New flapgate installed on WS pipe end.10/11/2012 Flap gate broken on WS, Pipe shows significant rust at outlet. This is a good candidate for video inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe though the levee, 20 feet below the crown. Pump on metal pier in landside (LS) channel. 40-inch steel standpipe at the LS toe. Flap gate and concrete headwall on the waterside (WS). Concrete headwall on the LS. (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 4.87)]. FS Date: 5/2/2017 2:30:31 PM						

Photo 3 of 3 : UCIP_SP_2019_51795_69024.jpg



Flap gate in concrete U-shaped headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Maintenance Area 0012

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	5.01	Rating **	M	Issue No.	53 (cont)	
LM End	5.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.100898 °	39.100898 °	
				-122.016078 °	-122.016078 °	
DWR ID	17191					
Comment Code						
Inspector Comment						
FS_ID:51796 DS_ID:17191 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 WS headwall and flapgate almost completely buried with only a small portion of the head wall visible. LS end is buried and unable to be located. (DWR Sutter Yard-AFreitag)10/17/2016 WS flap gate is still silted over and LS inlet is heavily vegetated and unable to be inspected. (DWR Sutter Yard-AFreitag)9/29/2016 Crosssing has been downgraded from Urgent to Non-Urgent WS flap gate is closed shut due to sediment build up. For flood season flap gate is required to be closed. Need to coordinate with owner to remove sediment from WS to have WS flap gate be operable after flood season. (DWR UCIP - omagana)5/31/2016 WS pipe end was mostly underwater but it appears to still be silted over. (DWR Sutter Yard - afreitag)5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is hidden by sediment and heavy vegetation and unable to be located. Needs to be cleared. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/11/2012 Pipe is clogged at both the inlet and outlet. Good candidate for video inspection. (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 15 feet below the crown. Concrete headwalls on both the waterside (WS) and the landside (LS) ends with an automatic drainage gate on the WS. [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959, (HLM 5.12)]. FS Date: 5/2/2017 2:31:39 PM						

Photo 2 of 3 : UCIP_SP_2019_51796_69029.jpg



Outlet on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	5.01	Rating **	M	Issue No.	53 (cont)	
LM End	5.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.100898 °	39.100898 °	
				-122.016078 °	-122.016078 °	
DWR ID	17191					
Comment Code						
Inspector Comment						
FS_ID:51796 DS_ID:17191 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 WS headwall and flapgate almost completely buried with only a small portion of the head wall visible. LS end is buried and unable to be located. (DWR Sutter Yard-AFreitag)10/17/2016 WS flap gate is still silted over and LS inlet is heavily vegetated and unable to be inspected. (DWR Sutter Yard-AFreitag)9/29/2016 Crosssing has been downgraded from Urgent to Non-Urgent WS flap gate is closed shut due to sediment build up. For flood season flap gate is required to be closed. Need to coordinate with owner to remove sediment from WS to have WS flap gate be operable after flood season. (DWR UCIP - omagana)5/31/2016 WS pipe end was mostly underwater but it appears to still be silted over. (DWR Sutter Yard - afreitag)5/4/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is hidden by sediment and heavy vegetation and unable to be located. Needs to be cleared. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/11/2012 Pipe is clogged at both the inlet and outlet. Good candidate for video inspection. (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 15 feet below the crown. Concrete headwalls on both the waterside (WS) and the landside (LS) ends with an automatic drainage gate on the WS. [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959, (HLM 5.12)]. FS Date: 5/2/2017 2:31:39 PM						

Photo 3 of 3 : UCIP_SP_2019_51796_69028.jpg



Concrete U shaped headwall and flap gate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	5.90	Rating **	A/W	Issue No.	54	
LM End	5.90	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.113840 °	39.113840 °	
				-122.017736 °	-122.017736 °	
DWR ID	17190					
Comment Code						
Inspector Comment						
FS_ID:51797						
DS_ID:17190						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)10/17/2016 Crossing appears to be in good condition. Pipe was field verified to be 48inch cmp. (DWR Sutter Yard- A Freitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.						
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 22 feet below the crown. Concrete headwalls at both the waterside (WS) and the landside (LS) ends with flap gate on the WS. 36-inch corrugated metal pipe (CMP) riser on the LS toe with steel pipe extension for overflow weir of LS ditch. Walkway and pump not associated with this crossing. (Automatic board order (ABO) issued as Permit No. 8234, 1972 - Glenn Irrigation District, for 36-inch, not 48-inch). [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959, (HLM 6.04, Drawing No. 50-4-3081, Sheet 16)].						
FS Date: 5/2/2017 2:33:13 PM						

LM Start	5.90	Rating **	A/W	Issue No.	54 (cont)
LM End	5.90	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_51797_69034.jpg



36-inch CM standpipe with steel pipe extension for weir on LS toe.
pump not associated with storm drain crossing.

Photo 2 of 3 : UCIP_SP_2019_51797_69033.jpg



36-inch CM standpipe with steel pipe extension for weir on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	5.90	Rating **	A/W	Issue No.	54 (cont)	
LM End	5.90	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.113840 °	39.113840 °	
				-122.017736 °	-122.017736 °	
DWR ID	17190					
Comment Code						
Inspector Comment						
FS_ID:51797 DS_ID:17190 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. Pipe was field verified to be 48inch cmp. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 22 feet below the crown. Concrete headwalls at both the waterside (WS) and the landside (LS) ends with flap gate on the WS. 36-inch corrugated metal pipe (CMP) riser on the LS toe with steel pipe extension for overflow weir of LS ditch. Walkway and pump not associated with this crossing. (Automatic board order (ABO) issued as Permit No. 8234, 1972 - Glenn Irrigation District, for 36-inch, not 48-inch). [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959, (HLM 6.04, Drawing No. 50-4-3081, Sheet 16)]. FS Date: 5/2/2017 2:33:13 PM						

Photo 3 of 3 : UCIP_SP_2019_51797_69032.jpg



Flap gate in concrete U-shaped headwall at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	5.96	Rating **	A/W	Issue No.	55 (cont)
LM End	5.96	Issue Type +	Ma	Location *	

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	5.96	Rating **	A/W	Issue No.	55 (cont)	
LM End	5.96	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.114633 °	39.114633 °	
				-122.017848 °	-122.017848 °	
DWR ID	17161					
Comment Code						
Inspector Comment						
FS_ID:51798 DS_ID:17161 EP_NO: 9390 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 20.3 feet below the crown. Concrete headwall and cobble revetted spillway on the waterside (WS). Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete headwall located on the landside (LS). (48-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 6.10)]. FS Date: 5/2/2017 2:34:03 PM						

Photo 3 of 3 : UCIP_SP_2019_51798_69040.jpg



Concrete headwall with slide gate at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	5.98	Rating **	M	Issue No.	56
LM End	5.98	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.114949 °	39.114949 °
				-122.017946 °	-122.017946 °
DWR ID	20715				
Comment Code					
Inspector Comment					
FS_ID:51800 DS_ID:20715 EP_NO: 13699 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Pipe appears to be in good condition. Minor erosion above the LS pump house. (DWR Sutter Yard-AFreitag)10/17/2016 Crossing appears to be in good condition. 5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Oil leakage around pump. FIELD_STRUCT_DESC: 1 of 2: 20-inch soil proofed steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump located on the waterside (WS). Siphon breaker in a 24-inch metal riser on the WS shoulder. Pump house at the landside (LS) toe. This crossing replaces the previous 18-inch pipe listed in the O&M manual, see DS_ID 17162. (Permit No. 13699, 1984 - Davis Ranches). [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959, (HLM 6.13)]. FS Date: 5/2/2017 2:35:14 PM					

LM Start	5.98	Rating **	M	Issue No.	56 (cont)
LM End	5.98	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_51800_69061.jpg



Pumping plant on LS slope

Photo 2 of 3 : UCIP_SP_2019_51800_69060.jpg



Siphon Breaker on WS shoulder.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	5.98	Rating **	M	Issue No.	56 (cont)	
LM End	5.98	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.114949 °		39.114949 °
				-122.017946 °		-122.017946 °
DWR ID	20715					
Comment Code						
Inspector Comment						
FS_ID:51800 DS_ID:20715 EP_NO: 13699 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Pipe appears to be in good condition. Minor erosion above the LS pump house. (DWR Sutter Yard-AFreitag)10/17/2016 Crossing appears to be in good condition. 5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Oil leakage around pump. FIELD_STRUCT_DESC: 1 of 2: 20-inch soil proofed steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump located on the waterside (WS). Siphon breaker in a 24-inch metal riser on the WS shoulder. Pump house at the landside (LS) toe. This crossing replaces the previous 18-inch pipe listed in the O&M manual, see DS_ID 17162. (Permit No. 13699, 1984 - Davis Ranches). [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959, (HLM 6.13)]. FS Date: 5/2/2017 2:35:14 PM						

Photo 3 of 3 : UCIP_SP_2019_51800_69059.jpg



Pump with oil leakage shown on side of pipe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	5.98	Rating **	M	Issue No.	57
LM End	5.98	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.114963 °	39.114963 °
				-122.017947 °	-122.017947 °
DWR ID	20716				
Comment Code					
Inspector Comment					
FS_ID:51801 DS_ID:20716 EP_NO: 13699 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Pipe appears to be in good conition. Minor erosion above the LS pump house. (DWR Sutter Yard- A/Freitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Oil leaks at pump head. FIELD_STRUCT_DESC: 2 of 2: 20-inch soil proofed steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump located on the waterside (WS). Siphon breaker in a 24-inch metal riser on the WS shoulder. Pump house at the landside (LS) toe. This crossing replaces the previous 18-inch pipe listed in the O&M manual, see DS_ID 17162. (Permit No. 13699, 1984 - Davis Ranches). [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959, (HLM 6.13)]. FS Date: 5/2/2017 2:36:30 PM					

LM Start	5.98	Rating **	M	Issue No.	57 (cont)
LM End	5.98	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_51801_69064.jpg



Siphon Breaker on WS shoulder.

Photo 2 of 3 : UCIP_SP_2019_51801_69063.jpg



Pumphouse on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	5.98	Rating **	M	Issue No.	57 (cont)	
LM End	5.98	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.114963 °		39.114963 °
				-122.017947 °		-122.017947 °
DWR ID	20716					
Comment Code						
Inspector Comment						
FS_ID:51801 DS_ID:20716 EP_NO: 13699 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Pipe appears to be in good conition. Minor erosion above the LS pump house. (DWR Sutter Yard- A/Freitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Oil leaks at pump head. FIELD_STRUCT_DESC: 2 of 2: 20-inch soil proofed steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump located on the waterside (WS). Siphon breaker in a 24-inch metal riser on the WS shoulder. Pump house at the landside (LS) toe. This crossing replaces the previous 18-inch pipe listed in the O&M manual, see DS_ID 17162. (Permit No. 13699, 1984 - Davis Ranches). [Additional Reference(s): USACE Sacramento O&M Manual 132, October 1959, (HLM 6.13)]. FS Date: 5/2/2017 2:36:30 PM						

Photo 3 of 3 : UCIP_SP_2019_51801_69062.jpg



Pipes on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	5.98	Rating **	M	Issue No.	58
LM End	5.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.114977 °	39.114977 °
				-122.017947 °	-122.017947 °
DWR ID	17199				
Comment Code					
Inspector Comment					
FS_ID:51803 DS_ID:17199 EP_NO: 9390 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Pipe appears to be in good condition. Minor erosion above the LS pump house. (DWR Sutter Yard-AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Minor oil leak on pump. FIELD_STRUCT_DESC: 3 of 3: 18-inch steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump located on the waterside (WS). Siphon breaker in a 16-inch metal riser on the WS shoulder. Pump house at the landside (LS) toe. (18-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 6.13)]. FS Date: 5/2/2017 2:37:23 PM					

Photo 1 of 3 : UCIP_SP_2019_51803_69081.jpg



Pump house on LS slope.

LM Start	5.98	Rating **	M	Issue No.	58 (cont)
LM End	5.98	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_51803_69080.jpg



Siphon breaker on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	5.98	Rating **	M	Issue No.	58 (cont)	
LM End	5.98	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.114977 °	39.114977 °	
				-122.017947 °	-122.017947 °	
DWR ID	17199					
Comment Code						
Inspector Comment						
FS_ID:51803 DS_ID:17199 EP_NO: 9390 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Pipe appears to be in good condition. Minor erosion above the LS pump house. (DWR Sutter Yard-AFreitag)10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/31/2016 Crossing appears to be in good condition. 5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Minor oil leak on pump. FIELD_STRUCT_DESC: 3 of 3: 18-inch steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump located on the waterside (WS). Siphon breaker in a 16-inch metal riser on the WS shoulder. Pump house at the landside (LS) toe. (18-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 6.13)]. FS Date: 5/2/2017 2:37:23 PM						

Photo 3 of 3 : UCIP_SP_2019_51803_69079.jpg



Pipe at exit from pumphouse.

LM Start	6.02	Rating **	U	Issue No.	37
LM End	7.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.115518 °	39.131618 °
				-122.017908 °	-122.022785 °
DWR ID	DWR_MA0012_01_f_2018_37				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2019_MA0012_299_37_20190304_00007.jpg



View of a ditch along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	6.83	Rating **	M	Issue No.	2
LM End	6.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.126359 °	39.126359 °
				-122.022732 °	-122.022732 °
DWR ID	DWR_MA0012_01_s_2019_2				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
There is minor sloughing on the landside shoulder.					

Photo 1 of 1 : SP_2019_MA0012_299_2_20190415_00077.jpg



View of the sloughing on the landside slope. Spring 2019.

LM Start	7.58	Rating **	M	Issue No.	59	
LM End	7.58	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.137187 °	39.137187 °	
				-122.022793 °	-122.022793 °	
DWR ID	17163					
Comment Code						
Inspector Comment						
FS_ID:51804 DS_ID:17163 EP_NO: 9390 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Appears abandoned- pipe capped on both ends. Should be removed. (DWR Sutter Yard- AFreitag)10/17/2016 Appears abandoned and should be removed. (DWR Sutter Yard- AFreitag)5/31/2016 Appears to be abandoned. Pipe is capped on both WS and LS ends.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Rodent burrowing along sides of pipe on LS. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 3 feet below the crown. Both ends capped, terminating on levee slopes. (Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 7.76)]. FS Date: 5/2/2017 2:45:44 PM						

Photo 1 of 3 : UCIP_SP_2019_51804_69089.jpg



Pipe on WS.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	7.58	Rating **	M	Issue No.	59 (cont)	
LM End	7.58	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.137187 °	39.137187 °	
				-122.022793 °	-122.022793 °	
DWR ID	17163					
Comment Code						
Inspector Comment						
FS_ID:51804 DS_ID:17163 EP_NO: 9390 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Appears abandoned- pipe capped on both ends. Should be removed. (DWR Sutter Yard- AFreitag)10/17/2016 Appears abandoned and should be removed. (DWR Sutter Yard- AFreitag)5/31/2016 Appears to be abandoned. Pipe is capped on both WS and LS ends.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Rodent burrowing along sides of pipe on LS. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 3 feet below the crown. Both ends capped, terminating on levee slopes. (Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 7.76)]. FS Date: 5/2/2017 2:45:44 PM						

LM Start	7.58	Rating **	M	Issue No.	59 (cont)
LM End	7.58	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_51804_69088.jpg



Pipe on LS.

Photo 3 of 3 : UCIP_SP_2019_51804_69087.jpg



Animal burrows along side of pipe LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	9.02	Rating **	A/W	Issue No.	35
LM End	9.04	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.157957 °	39.158226 °
				-122.021950 °	-122.021950 °
DWR ID	DWR_MA0012_01_f_2018_35				
Comment Code					
Inspector Comment					
2017 Site ID: SYC 9.3 L					
Status: Eroding					
2017 Field Notes: Access Issues - Could not observe					
Site History: 2011 - Erosion occurring upstream and downstream of an irrigation diversion structure.					

Photo 1 of 2 : SP_2019_MA0012_299_35_20190304_00004.jpg



View of diversion structure. Fall 2018.

LM Start	9.02	Rating **	A/W	Issue No.	35 (cont)
LM End	9.04	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2019_MA0012_299_35_20190304_00005.jpg



Upstream view of Colusa Basin from the diversion structure. Fall 2018.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	9.03	Rating **	U	Issue No.	60	
LM End	9.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.158097 °	39.158097 °	
				-122.021706 °	-122.021706 °	
DWR ID	17166					
Comment Code						
Inspector Comment						
FS_ID:53012 DS_ID:17166 EP_NO: 9390 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/5/2018 Longitudinal crack observed on C-shaped headwall on WS which is tilting away from levee. Progressing erosion around headwall was observed on WS. Crossing is a part of DWR FSRP inspection. (O.Yakimov - DWR)5/2/2017 Ws headwal still appears to be tilting away from the levee. No wheel to operate the WS slidegate. (DWR Sutter Yard- AFreitag)10/17/2016 WS concrete headwall is still tiltig away from the levee. (DWR Sutter Yard- AFreitag)5/31/216 Ws concrete headwall is still tilting away from the levee and towards the WS ditch. (DWR Sutter Yard - afreitag)5/4/2015 WS concrete headwall tilting away from the levee slope. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/11/2012 Concrete Headwall tilting on WS slope. (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Concrete headwall, slide gate, and grouted revetment on the waterside (WS). Slide gate and concrete headwall on the landside (LS). (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 9.24)]. FS Date: 10/5/2018 2:55:04 PM						

Photo 1 of 3 : UCIP_SP_2019_53012_78206.jpg



Headwall at WS toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	9.03	Rating **	U	Issue No.	60 (cont)	
LM End	9.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.158097 °	39.158097 °	
				-122.021706 °	-122.021706 °	
DWR ID	17166					
Comment Code						
Inspector Comment						
FS_ID:53012 DS_ID:17166 EP_NO: 9390 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/5/2018 Longitudinal crack observed on C-shaped headwall on WS which is tilting away from levee. Progressing erosion around headwall was observed on WS. Crossing is a part of DWR FSRP inspection. (O.Yakimov - DWR)5/2/2017 Ws headwal still appears to be tilting away from the levee. No wheel to operate the WS slidegate. (DWR Sutter Yard- AFreitag)10/17/2016 WS concrete headwall is still tiltig away from the levee. (DWR Sutter Yard- AFreitag)5/31/216 Ws concrete headwall is still tilting away from the levee and towards the WS ditch. (DWR Sutter Yard - afreitag)5/4/2015 WS concrete headwall tilting away from the levee slope. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/11/2012 Concrete Headwall tilting on WS slope. (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Concrete headwall, slide gate, and grouted revetment on the waterside (WS). Slide gate and concrete headwall on the landside (LS). (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 9.24)]. FS Date: 10/5/2018 2:55:04 PM						

Photo 2 of 3 : UCIP_SP_2019_53012_78208.jpg



Overview of headwall at WS toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	9.03	Rating **	U	Issue No.	60 (cont)	
LM End	9.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.158097 °	39.158097 °	
				-122.021706 °	-122.021706 °	
DWR ID	17166					
Comment Code						
Inspector Comment						
FS_ID:53012 DS_ID:17166 EP_NO: 9390 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/5/2018 Longitudinal crack observed on C-shaped headwall on WS which is tilting away from levee. Progressing erosion around headwall was observed on WS. Crossing is a part of DWR FSRP inspection. (O.Yakimov - DWR)5/2/2017 Ws headwal still appears to be tilting away from the levee. No wheel to operate the WS slidegate. (DWR Sutter Yard- AFreitag)10/17/2016 WS concrete headwall is still tiltig away from the levee. (DWR Sutter Yard- AFreitag)5/31/216 Ws concrete headwall is still tilting away from the levee and towards the WS ditch. (DWR Sutter Yard - afreitag)5/4/2015 WS concrete headwall tilting away from the levee slope. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/11/2012 Concrete Headwall tilting on WS slope. (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Concrete headwall, slide gate, and grouted revetment on the waterside (WS). Slide gate and concrete headwall on the landside (LS). (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 9.24)]. FS Date: 10/5/2018 2:55:04 PM						

Photo 3 of 3 : UCIP_SP_2019_53012_78209.jpg



Inside view of concrete headwall and slidegate at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	9.03	Rating **	M	Issue No.	61	
LM End	9.03	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.158124 °	39.158124 °	
				-122.021701 °	-122.021701 °	
DWR ID	17165					
Comment Code						
Inspector Comment						
FS_ID:51807 DS_ID:17165 EP_NO: 9390 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/2/2017 Abandoned- only LS steel walkway is visible. (DWR Sutter Yard- A Freitag)10/17/2016 Abandoned. (DWR Sutter Yard- A Freitag)5/31/2016 Abandoned crossing.5/4/2015 Abandoned crossing.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Pipe abandoned. Steel pump platform remains on LS slope, but all appurtances have been removed. FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel drainage pipe through the levee, 3 feet below the crown. Waterside (WS) end open into concrete spill box. Pump located on the landside (LS) on steel pier. (18-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 9.24)]. FS Date: 5/2/2017 2:47:45 PM						

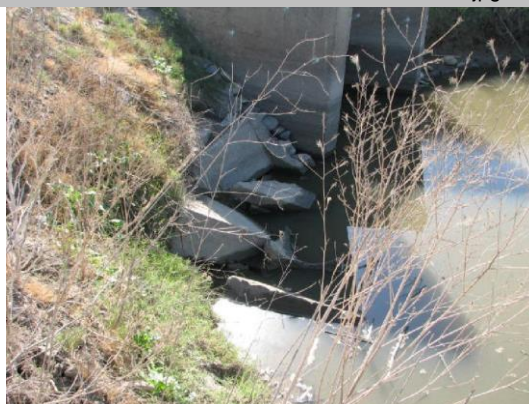
LM Start	9.03	Rating **	M	Issue No.	61 (cont)
LM End	9.03	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_51807_69109.jpg



Pump platform at center left of photo.

Photo 2 of 3 : UCIP_SP_2019_51807_69108.jpg



headwall debris on LS toe showing evidence of 18-inch cmp.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	9.03	Rating **	M	Issue No.	61 (cont)	
LM End	9.03	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.158124 °	39.158124 °	
				-122.021701 °	-122.021701 °	
DWR ID	17165					
Comment Code						
Inspector Comment						
FS_ID:51807 DS_ID:17165 EP_NO: 9390 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/2/2017 Abandoned- only LS steel walkway is visible. (DWR Sutter Yard- A Freitag)10/17/2016 Abandoned. (DWR Sutter Yard- A Freitag)5/31/2016 Abandoned crossing.5/4/2015 Abandoned crossing.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Pipe abandoned. Steel pump platform remains on LS slope, but all appurtenances have been removed. FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel drainage pipe through the levee, 3 feet below the crown. Waterside (WS) end open into concrete spill box. Pump located on the landside (LS) on steel pier. (18-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 9.24)]. FS Date: 5/2/2017 2:47:45 PM						

Photo 3 of 3 : UCIP_SP_2019_51807_69107.jpg



headwall debris on LS toe showing evidence of 18-inch cmp.

LM Start	9.07	Rating **	A/W	Issue No.	39
LM End	9.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.158663 °	39.158663 °
				-122.021713 °	-122.021713 °
DWR ID	DWR_MA0012_01_f_2018_39				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There seems to be recent activity in a single hole. Recommend monitoring.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	9.12	Rating **	U	Issue No.	62
LM End	9.12	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.159477 °	39.159477 °	
			-122.021839 °	-122.021839 °	
DWR ID	17167				

Comment Code

Inspector Comment

FS_ID:53013
DS_ID:17167
EP_NO: 9389
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/5/2018 Flap gate was installed at WS end of the pipe. Pipe is excessively corroded looking inside from WS end. Video inspection is recommended. Cracks more than 1-inch wide were observed on WS slope around pipe alignment that may be a sign of slope instability. (O.Yakimov - DWR)5/2/2017 No repairs have been made to this crossing yet. WS flap gate is still disconnected from end of pipe and pipe is showing heavy signs of rust and deterioration as far in as i can see from the WS end. Pipe should be internally camera inspected and repaired/replaced. (DWR Sutter Yard-AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner needs to re-attach flap gate to drainage pipe and coordinate with CVFPB to address additional issue(s) identified in NOV. Owner has until Monday February 27th, 2017 to repond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP - O. Magana) 10/17/2016 WS flapgate has seperated from the pipe end. WS pipe end is showing signs of rust and deterioration. Needs a new flapgate or other means of closing off the pipe before flood season. (DWR Sutter Yard-AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 15.4 feet below the crown. Concrete headwall and flap gate on the waterside (WS). Concrete headwall on the landside (LS). Pump on steel structure in slough on the LS. Pump discharges into a 42-inch corrugated metal pipe (CMP) riser. Service pole on ramp. Butterfly gate at inlet on the LS toe. (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9389, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 9.33)].
FS Date: 10/5/2018 3:16:10 PM

Photo 1 of 3 : UCIP_SP_2019_53013_78165.jpg



Pumping plant at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	9.12	Rating **	U	Issue No.	62 (cont)
LM End	9.12	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.159477 °	39.159477 °	
			-122.021839 °	-122.021839 °	
DWR ID	17167				

Comment Code

Inspector Comment

FS_ID:53013
DS_ID:17167
EP_NO: 9389
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/5/2018 Flap gate was installed at WS end of the pipe. Pipe is excessively corroded looking inside from WS end. Video inspection is recommended. Cracks more than 1-inch wide were observed on WS slope around pipe alignment that may be a sign of slope instability. (O.Yakimov - DWR)5/2/2017 No repairs have been made to this crossing yet. WS flap gate is still disconnected from end of pipe and pipe is showing heavy signs of rust and deterioration as far in as i can see from the WS end. Pipe should be internally camera inspected and repaired/replaced. (DWR Sutter Yard-AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner needs to re-attach flap gate to drainage pipe and coordinate with CVFPB to address additional issue(s) identified in NOV. Owner has until Monday February 27th, 2017 to repond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP - O. Magana) 10/17/2016 WS flapgate has seperated from the pipe end. WS pipe end is showing signs of rust and deterioration. Needs a new flapgate or other means of closing off the pipe before flood season. (DWR Sutter Yard-AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 15.4 feet below the crown. Concrete headwall and flap gate on the waterside (WS). Concrete headwall on the landside (LS). Pump on steel structure in slough on the LS. Pump discharges into a 42-inch corrugated metal pipe (CMP) riser. Service pole on ramp. Butterfly gate at inlet on the LS toe. (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9389, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 9.33)].
FS Date: 10/5/2018 3:16:10 PM

Photo 2 of 3 : UCIP_SP_2019_53013_76060.jpg



View inside of pipe from the WS

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	9.12	Rating **	U	Issue No.	62 (cont)
LM End	9.12	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.159477 °	39.159477 °	
			-122.021839 °	-122.021839 °	
DWR ID	17167				

Comment Code

Inspector Comment

FS_ID:53013
DS_ID:17167
EP_NO: 9389
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/5/2018 Flap gate was installed at WS end of the pipe. Pipe is excessively corroded looking inside from WS end. Video inspection is recommended. Cracks more than 1-inch wide were observed on WS slope around pipe alignment that may be a sign of slope instability. (O.Yakimov - DWR)5/2/2017 No repairs have been made to this crossing yet. WS flap gate is still disconnected from end of pipe and pipe is showing heavy signs of rust and deterioration as far in as i can see from the WS end. Pipe should be internally camera inspected and repaired/replaced. (DWR Sutter Yard-AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner needs to re-attach flap gate to drainage pipe and coordinate with CVFPB to address additional issue(s) identified in NOV. Owner has until Monday February 27th, 2017 to repond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP - O. Magana) 10/17/2016 WS flapgate has seperated from the pipe end. WS pipe end is showing signs of rust and deterioration. Needs a new flapgate or other means of closing off the pipe before flood season. (DWR Sutter Yard-AFreitag)5/31/2016 Crossing appears to be in good condition.5/4/2015 Corssing appears to be in good condition. No noticeable issues to report.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 15.4 feet below the crown. Concrete headwall and flap gate on the waterside (WS). Concrete headwall on the landside (LS). Pump on steel structure in slough on the LS. Pump discharges into a 42-inch corrugated metal pipe (CMP) riser. Service pole on ramp. Butterfly gate at inlet on the LS toe. (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9389, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 9.33)].
FS Date: 10/5/2018 3:16:10 PM

Photo 3 of 3 : UCIP_SP_2019_53013_78159.jpg



View of levee crown at crossing.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	9.15	Rating **	C	Issue No.	36
LM End	9.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.159932 °	39.159932 °
				-122.021875 °	-122.021875 °
DWR ID	DWR_MA0012_01_f_2018_36				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes on the landside slope have been backfilled.					

No Photos

LM Start	10.92	Rating **	M	Issue No.	63	
LM End	10.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.180039 °	39.180039 °	
				-122.014266 °	-122.014266 °	
DWR ID	17157					
Comment Code						
Inspector Comment						
FS_ID:51810 DS_ID:17157 EP_NO: 9386 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- A/Freitag)10/17/2016 Abandoned crossing. (DWR Sutter Yard- A/Freitag)5/31/2016 Abandoned crossing. Both pipe ends and slide gate inside of riser are buried.5/4/2015 Both pipe ends and slide gate in riser are plugged with soil. Crossing is inoperable.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Pipe plugged with soil on both ends as well as at slide gate on WS slope. Slide gate inoperable. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 8 feet below the crown. Slide gate in a 36-inch riser on the waterside (WS) shoulder. Levee turns eastward. (24-inch pipe [HLM 11.17] authorized under Automatic Board Order (ABO) issued as Permit No. 9386, 1974 - C. J. Wescott Jr.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 11.17)]. FS Date: 5/2/2017 2:51:53 PM						

Photo 1 of 2 : UCIP_SP_2019_51810_69115.jpg



cover on 36-inch CMP standpipe on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/08/2019 04/08/2019	Zach Jojola

LM Start	10.92	Rating **	M	Issue No.	63 (cont)
LM End	10.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.180039 °	39.180039 °
				-122.014266 °	-122.014266 °
DWR ID	17157				
Comment Code					
Inspector Comment					
<p>FS_ID:51810 DS_ID:17157 EP_NO: 9386 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/2/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/17/2016 Abandoned crossing. (DWR Sutter Yard- AFreitag)5/31/2016 Abandoned crossing. Both pipe ends and slide gate inside of riser are buried.5/4/2015 Both pipe ends and slide gate in riser are plugged with soil. Crossing is inoperable.6/17/2014 Same as last inspection.12/16/2013 Same as last inspection.7/16/2013 Same as last inspection.10/11/2012 Pipe plugged with soil on both ends as well as at slide gate on WS slope. Slide gate inoperable. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 8 feet below the crown. Slide gate in a 36-inch riser on the waterside (WS) shoulder. Levee turns eastward. (24-inch pipe [HLM 11.17] authorized under Automatic Board Order (ABO) issued as Permit No. 9386, 1974 - C. J. Wescott Jr.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 132, October 1959, (HLM 11.17)]. FS Date: 5/2/2017 2:51:53 PM</p>					

Photo 2 of 2 : UCIP_SP_2019_51810_69114.jpg



Bent and broken actuator on slide gate in 36-inch CMP. Pipe appears to be filled with soil.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement